# (3)

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

## **Declaration for Patent Application**

[ ] Supplemental (37 C.F.R. §1.67)

s a named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 2 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

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the spe	cification of which (c	heck one)									
[]	is attached hereto.										
[X]	was filed on Nover	<u>nber 20, 2001</u> a	s United	l States Application							
	Number or PCT In	ternational App	lication	No. 09/989	758						
	and was amended o	on	(if a	oplicable).							
includi	I hereby state that Ing the claims, as ame					e-ider	tified	spec	ificat	ion,	
	I acknowledge the cincluding for continuate of the prior application.	ation-in-part app	plication	ns, material informa	tion which be	ecame	availa	ıble 1	betwe	en th	R. le
United for pate	I hereby claim fore ntor's certificate, or o States of America, lise ant or inventor's certifition on which priority	f any PCT inter sted below and l ficate, or of any	mational have als	application which o identified below,	designated at by checking	least	one co	ountr fore	y oth	er tha	ın the ation
			Prior F	oreign Application(	<u>s)</u>		ority ot imed		Certi Copy : ES		
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(Numbe	er)	(Country)		(Day/Month/Year	filed)	[	]	[	]	[	]

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Full name of sole	m 11p G 11				
	Todd R. Golub				
	Date				1
Residence					
<u> </u>					
Citizenship	U.S.A.				
Mailing Address	Same as above	Ŷ.			
Full name of second joi	:=====================================				
inventor, if any	Pablo Tamayo		7		
	D				
Residence				9	
	Cambridge, Massachusetts 02139				
Citizenship				-	
Mailing Address	Same as above				-
inventor, if any	Margaret Shipp				
Inventor's Signature	Mas gard Jung Da	ite1.	<u> 5005-8-</u>		
Residence	3 Middlesex Street			1.00	
	Wellesley, Massachusetts 02482				
	U.S.A.				
_					
Full name of fourth join	nt				
inventor, if any	Eric S. Lander	- 1 -			
Inventor's Signature	Dat	te			
Residence	151 Bishop Allen Drive				
	Cambridge, Massachusetts 02139				
Citizenship	U.S.A.				
Mailing Address	Same as above				

Full name of fifth joint			
inventor, if any	Jon C. Aster		
Inventor's Signature	In C. aste Date	1-7-2007	
Residence	84 North Street		
	Lexington, Massachusetts 02420		
Citizenship	U.S.A.		
Mailing Address	Same as above		
-			

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

## **Declaration for Patent Application**

Supplemental (37 C.F.R. §1.67)

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or (if plural names are ned and for which a p	e listed in the signa patent is sought on	tory page(s) comme the invention entitle	ncing at page 2 h d	ereof)	of the	subj	ject n	nattei	whic
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cification of which (c	check one)			<del></del>	A744				
is attached hereto.									
was filed on Nover	<u>mber 20, 2001</u> as U	nited States Applica	tion						
Number or PCT In	ternational Applica	ition No. 09/	989,758						
and was amended o	on	(if applicable).							
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ncluding for continu	ation-in-part applic	ations, material info	rmation which b	ecame	availa	ıble 1	betwe	en th	R. ie
ntor's certificate, or o States of America, lisent or inventor's certification	of any PCT internat sted below and hav ficate, or of any PC	ional application whe e also identified bel	ich designated at ow, by checking	t least the bo	one co x, any	untr fore	y otheign a	er tha pplic	an the ation
	<u>Pr</u>	ior Foreign Applicat	ion(s)	N	ot	Y.	Copy	Filed	l? :O
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er)	(Country)	(Day/Month/)	(ear filed)	[	]	[	]	[	]
	Diffuse Land for which a particular point of which (or is attached hereto.  Was filed on Nover of PCT In and was amended or I hereby state that I ag the claims, as amended of the prior application.  I hereby claim fore notice of the prior application.  I hereby claim fore notice of America, light or inventor's certificate, or of States of America, light or inventor's certificate on which priority in the priority of the priorit	Diffuse Large Cell Lymphon  cification of which (check one)  is attached hereto.  was filed on November 20, 2001 as U  Number or PCT International Application and was amended on  I hereby state that I have reviewed and the claims, as amended by any amended of the prior application and the national of the prior application	Diffuse Large Cell Lymphoma Diagnosis and Otter Control of Which (check one)  is attached hereto.  was filed on November 20, 2001 as United States Applicated Number or PCT International Application No. 09/ and was amended on (if applicable).  I hereby state that I have reviewed and understand the control of the claims, as amended by any amendment referred to about a continuation-in-part applications, material information of the prior application and the national or PCT internation.  I hereby claim foreign priority benefits under 35 U.S.C. 1 attor's certificate, or of any PCT international application who states of America, listed below and have also identified below to inventor's certificate, or of any PCT international application on which priority is claimed:  Prior Foreign Applicated (Country) (Day/Month/Month/Month)	Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction  Was attached hereto.  Was filed on November 20, 2001 as United States Application  Op/989,758  and was amended on	Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by E  dification of which (check one)  is attached hereto.  was filed on November 20, 2001 as United States Application  Number or PCT International Application No. 09/989,758  and was amended on (if applicable).  I hereby state that I have reviewed and understand the contents of the above-ident gethe claims, as amended by any amendment referred to above.  I acknowledge the duty to disclose information which is material to patentability including for continuation-in-part applications, material information which became atte of the prior application and the national or PCT international filing date of the citon.  I hereby claim foreign priority benefits under 35 U.S.C. 119 or 365 of any foreign tor's certificate, or of any PCT international application which designated at least States of America, listed below and have also identified below, by checking the both or inventor's certificate, or of any PCT international application having a filing ion on which priority is claimed:  Prior Foreign Application(s)  Prior Foreign Application(s)  Prior Foreign Application(s)  (Country)  (Day/Month/Year filed)	Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Express diffication of which (check one)  is attached hereto.  was filed on November 20, 2001 as United States Application  Number or PCT International Application No. 09/989,758  and was amended on (if applicable).  I hereby state that I have reviewed and understand the contents of the above-identified age the claims, as amended by any amendment referred to above.  I acknowledge the duty to disclose information which is material to patentability as definituding for continuation-in-part applications, material information which became available to of the prior application and the national or PCT international filing date of the continuors's certificate, or of any PCT international application which designated at least one constates of America, listed below and have also identified below, by checking the box, any not or inventor's certificate, or of any PCT international application having a filing date below on which priority is claimed:    Prior Foreign Application(s)	Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression 2  Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression 2  Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression 2  Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression 2  Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression 2  Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression 2  Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression 2  Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression 2  Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression 2  Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression 2  Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression 2  Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression 2  Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression 2  Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression 2  Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression 2  Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression 2  Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression 2  Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression 2  Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression 2  Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression 2  Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression 2  Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression 2  Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression 2  Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression 2  Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression 2  Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression 2  Diffuse Large Cell	Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression Analy  cification of which (check one)  is attached hereto.  was filed on November 20, 2001 as United States Application  Number or PCT International Application No	Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression Analysis  cification of which (check one)  is attached hereto.  was filed on November 20, 2001 as United States Application  Number or PCT International Application No

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole	
or first inventor	Todd R. Golub
Inventor's Signature	
	Date /31/02
Residence	65 Waldorf Road
	Newton, Massachusetts 02164 02464 TRG V31/02
Citizenship	U.S.A.
Mailing Address	Same as above
Full name of second joint inventor, if any	(/ h)
Inventor's Signature	(M(d)) 1 124/2 (92)
Residence	HW/
	Rambridge, Massachusetts 02139 CAMBRIDGE MA 02147
Citizenshin	Mexico
	Same as above
Full name of third joint	
inventor, if any	Margaret Shipp
-	Date
Residence	
	Wellesley, Massachusetts 02482
Citizenship	U.S.A.
	Same as above
Full name of fourth joint inventor, if any	Erio Ry ander  Date 2107
Residence	151 Bishop Allen Drive 74 & facy is weeker It
	Cambridge, Massachusetts 02139
Citizenship	U.S.A.
Mailing Address	Same as above



## HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

## R OF ATTORNEY OR AUTHORIZATION OF AGENT AND CORRESPONDENCE ADDRESS

Application Number	09/989,758
Filing Date	November 20, 2001
First Named Inventor	Todd R. Golub
Group Art Unit	1636
Examiner Name	Unknown
Attorney Docket Number	2825.2024-002

I/We his	eby appoint
[X] t	attorneys/agents associated with Customer No. 021905
Į J F	actitioner(s) named below:
****	
as my/c States	r attorneys/agents to prosecute the application identified above, and to transact all business in the United atent and Trademark Office connected therewith.
The co	espondence address for the above-identified application is:
[X] (	istomer Number 021005
H	ımilton, Brook, Smith & Reynolds, P.C.
5	0 Virginia Road
F	O. Box 9133
	oncord, Messachusetts 01742-9133
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Please Name	irect all telephone calls and facsimiles to: isa M. Treannie, Esq. Tel. No. 978-341-0036 Fax No. 978-341-0136  plicant/inventor.  Inthorized representative of the Assignee of the entire interest. See 37 C.F.R. 3.71. A Statement under 37 F.R. §3.73(b) is enclosed.  Inthorized representative of an assignee together with Dana-Farber Cancer Institute, Inc. and The Brigham of Women's Hospital, Inc. of the entire Interest. A separate Statement under 37 C.F.R. § 3.73(b) is closed.  SIGNATURE of Applicant or Assignee of Record
Please Name	irect all telephone calls and facsimiles to: isa M. Treannie, Esq. Tel. No. 978-341-0036 Fax No. 978-341-0136  pplicant/inventor.  Inhorized representative of the Assignee of the entire Interest. See 37 C.F.R. 3.71. A Statement under 37 F.R. §3.73(b) is enclosed.  Inhorized representative of an assignee together with Dana-Farber Cancer Institute, Inc. and The Brigham of Woman's Hospital, Inc. of the entire Interest. A separate Statement under 37 C.F.R. § 3.73(b) is closed.  Signature of Applicant or Assignee of Record  Patricia Granahan, Esq.
Please Name	irect all telephone calls and facsimiles to:  isa M. Treannie, Esq. Tel. No. 978-341-0036 Fax No. 978-341-0136  pplicant/inventor.  ithorized representative of the Assignee of the entire interest. See 37 C.F.R. 3.71. A Statement under 37 F.R. §3.73(b) is enclosed.  ithorized representative of an assignee together with Dana-Farber Cancer Institute, Inc. and The Brigham of Women's Hospital, Inc. of the entire Interest. A separate Statement under 37 C.F.R. § 3.73(b) is closed.  Signature of Applicant or Assignee of Record  Patricia Granahan, Esq.



Docket No. 2825.2024-002

Multi-Sole

#### **ASSIGNMENT**

WHEREAS, I, Todd R. Golub, together with co-inventors Pablo Tamayo, Margaret Shipp, Eric S. Lander and Jon C. Aster, have invented a certain improvement in Diffuse Large Cell Lymphoma Diagnosis and Outcome Prediction by Expression Analysis, described in an application for Letters Patent of the United States, the specification of which:

- [ ] is being executed on even date herewith and is about to be filed in the United States Patent Office;
- [X] was filed on November 20, 2001 as Application No. 09/989,758;
- [ ] was patented under U.S. Patent No. [ ] on [ ].

WHEREAS, Whitehead Institute for Biomedical Research, a corporation organized and existing under the laws of the State of Delaware and having a usual place of business at Nine Cambridge Center, Cambridge, Massachusetts 02142, and Dana-Farber Cancer Institute, Inc., a corporation organized and existing under the laws of the Commonwealth of Massachusetts, and having a usual place of business at 44 Binney Street, Boston, Massachusetts, 02115, (hereinafter "ASSIGNEES"), desire to acquire an interest therein in accordance with agreements duly entered into with me;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEES, their successors, assigns and legal representatives, my entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with my entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEES for their own use and behalf and for their successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made; I hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. I hereby acknowledge that this assignment, being of my entire right, title and interest in and to said invention, carries with it the right in ASSIGNEES to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEES for their own name as assignees of the entire right, title and interest therein;

AND, I hereby further agree for myself and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEES, their successors, assigns and legal representatives, but at its or their expense and charges, including the

execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, I do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEES, their successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my seal the date set forth below.

Inventor's Signature:		*	W			
State/Commonwealth of	tt	т	odd R. Golub			1 × 5 × 5 × 5 × 5 × 5 × 5 × 5 × 5 × 5 ×
County of /////////	MY					* *- (4) *- (8-8)
Then personally appeare he executed the foregoin	,			~ 1//7	knowled day c	-
(SEAL)	AHALL	18. San	VIDDO	ary Public		
	My Com	mission expires	<u>anati</u> n borii 8 / 4	/ <i>06</i>		

( ) /3-
Inventor's Signature:
Eric S. Lander
State/Commonwealth
of Maxsachuretts
County of Mind Paley
Then personally appeared before me the above-named Eric S. Lander and acknowledged that
he executed the foregoing instrument as his free act and deed this day of
(SEAL) MAD Otary Public
Kimberly 6. (Surativerint name)
My Commission expires 8 / 4/116